

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5614445

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RICHARD PELLEGRINO	08/24/2012
PAULA PAPINEAU	08/17/2012
JOHN S. CROMBIE	08/27/2012
SAMIT PATEL	08/30/2012
THOMAS RYAN	08/21/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	RELIEVANT MEDSYSTEMS, INC.
<b>Street Address:</b>	8500 NORMANDALE LAKE BLVD.
<b>Internal Address:</b>	SUITE 2150
<b>City:</b>	MINNEAPOLIS
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55437
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16153234
Application Number:	16153242
Application Number:	16160155
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(949)760-9502
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	9497600404
<b>Email:</b>	efiling@knobbe.com
<b>Correspondent Name:</b>	KNOBBE MARTENS OLSON & BEAR LLP
<b>Address Line 1:</b>	2040 MAIN STREET
<b>Address Line 2:</b>	14TH FLOOR
<b>Address Line 4:</b>	IRVINE, CALIFORNIA 92614
<b>ATTORNEY DOCKET NUMBER:</b>	RELV.003P2C7/C8/C9
<b>NAME OF SUBMITTER:</b>	MICHAEL CHRISTENSEN
<b>SIGNATURE:</b>	/Michael Christensen/

PATENT

DATE SIGNED:	07/11/2019
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**Total Attachments: 33**

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### ASSIGNMENT

WHEREAS, Richard Pellegrino, a US citizen, residing at Half Moon Bay, CA; Paula Papineau, a US citizen, residing at West Bridgewater, MA; John S. Crombie, a US citizen, residing at East Hanover, NJ; Samit Patel, a US citizen, residing at San Francisco, CA; and Thomas Ryan, a US citizen, residing at Austin, TX (individuals hereinafter "ASSIGNOR") invented certain technology, inventions, developments, ideas or discoveries for which the following applications for Letters Patent in the United States have been prepared for filing or have been filed with the United States Patent and Trademark Office (hereinafter the "Applications"):

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RELV.004P1C3	INTRAOSSEOUS NERVE DENERVATION METHODS	13/543,721

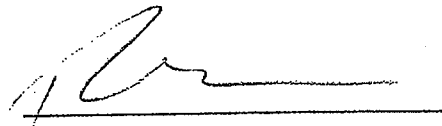
AND WHEREAS, Relievant Medsystems, Inc., a Delaware corporation, with its principal place of business at 2688 Middlefield Road, Suite A, Redwood City, CA 94063, (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Applications:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Applications, all applications to which the Applications claim priority (to the extent not already assigned), and all nonprovisional applications claiming priority thereto, including all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Applications, and testify in any legal proceeding, assist in the preparation of any other non-provisional applications relating to the Applications or any improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Applications including any improvements made thereto, any patent applications filed therefrom, any patent applications to which the Applications claim priority, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the patent applications in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 24 day of August, 2012.



Richard Pellegrino

Sign in presence of a Notary and have

Notary attach Acknowledgement

County of Loudoun  
Commonwealth of Virginia  
Subscribed and sworn to before me  
this 24th day of August, 2012  
by Richard Pellegrino  
Diana Lee Stonehouse Notary Public  
DIANA LEE STONEHOUSE  
Reg.# 7352194 Commission expires 6/30/2014

---

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_\_, 2012.

---

Paula Papineau

Sign in presence of a Notary and have

Notary attach Acknowledgement

---

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_\_, 2012.

---

John S. Crombie

Sign in presence of a Notary and have

Notary attach Acknowledgement

---

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_\_, 2012.

---

Samit Patel

**Sign in presence of a Notary and have**

**Notary attach Acknowledgement**

---

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_\_, 2012.

---

Thomas Ryan

Sign in presence of a Notary and have

Notary attach Acknowledgement

13766528



### ASSIGNMENT

WHEREAS, Richard Pellegrino, a US citizen, residing at Half Moon Bay, CA; Paula Papineau, a US citizen, residing at West Bridgewater, MA; John S. Crombie, a US citizen, residing at East Hanover, NJ; Samit Patel, a US citizen, residing at San Francisco, CA; and Thomas Ryan, a US citizen, residing at Austin, TX (individuals hereinafter "ASSIGNOR") invented certain technology, inventions, developments, ideas or discoveries for which the following applications for Letters Patent in the United States have been prepared for filing or have been filed with the United States Patent and Trademark Office (hereinafter the "Applications"):

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RELV.003P1C1	BASIVERTEBRAL NERVE DENERVATION	13/612,561
RELV.004P1C3	INTRAOSSEOUS NERVE DENERVATION METHODS	13/543,721

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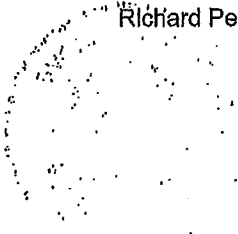
AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Applications, and testify in any legal proceeding, assist in the preparation of any other non-provisional applications relating to the Applications or any Improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Applications including any Improvements made thereto, any patent applications filed therefrom, any patent applications to which the Applications claim priority, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the patent applications in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 2012.

\_\_\_\_\_  
Richard Pellegrino

Sign in presence of a Notary and have

Notary attach Acknowledgement



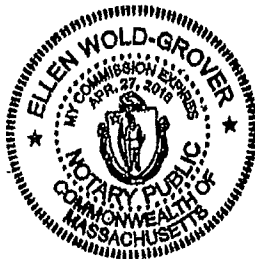
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 17 day of August, 2012.

Paula Papneau

Paula Papneau

Sign in presence of a Notary and have

Notary attach Acknowledgement



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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_, 2012.

---

John S. Cromble

Sign in presence of a Notary and have

Notary attach Acknowledgement

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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_\_, 2012.

---

Samit Patel

Sign in presence of a Notary and have  
Notary attach Acknowledgement

---

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_\_, 2012.

---

Thomas Ryan

**Sign in presence of a Notary and have**

**Notary attach Acknowledgement**

13766528

### ASSIGNMENT

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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 2012.

\_\_\_\_\_  
Richard Pellegrino

**Sign in presence of a Notary and have**

**Notary attach Acknowledgement**



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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_\_, 2012.

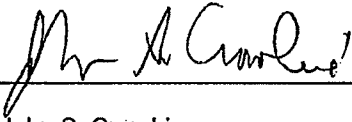
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Paula Papineau

**Sign in presence of a Notary and have**  
**Notary attach Acknowledgement**

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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 27 day of August, 2012.

  
\_\_\_\_\_  
John S. Crombie

Sign in presence of a Notary and have  
Notary attach Acknowledgement

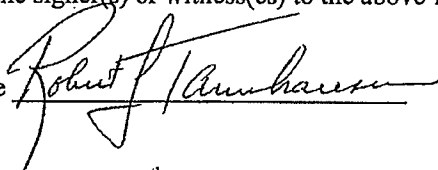
**Acknowledgment Certificate**

*Attached as an acknowledgement for Assignment Document for Patent Application Docket Numbers: RELV.003P2; RELV.003P1C1; RELV.004P1C3 signed By John S. Crombie on August 27<sup>th</sup>, 2012.*

State of New Jersey  
County of Somerset

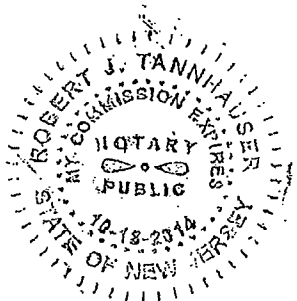
On August 27<sup>th</sup>, 2012 before me, Robert J. Tannhauser, Notary Public in and for said county, personally appeared John S. Crombie, (signer/witness) who has/have satisfactorily identified him/her/themselves as the signer(s) or witness(es) to the above-referenced document.

Notary Public Signature

 8/27/12

My Commission Expires: October 18<sup>th</sup>, 2014

**ROBERT J. TANNHAUSER**  
**NOTARY PUBLIC OF NEW JERSEY**  
**My Commission Expires 10/18/2014**



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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_\_, 2012.

---

Samit Patel

**Sign in presence of a Notary and have**  
**Notary attach Acknowledgement**

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---

Thomas Ryan

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13766528

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---

Richard Pellegrino

**Sign in presence of a Notary and have**

**Notary attach Acknowledgement**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 2012.

---

Paula Papineau

**Sign in presence of a Notary and have**

**Notary attach Acknowledgement**



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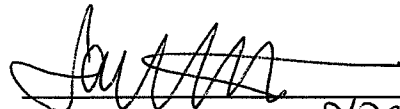
John S. Crombie

**Sign in presence of a Notary and have**

**Notary attach Acknowledgement**

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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 30 day of AUGUST, 2012.

  
Samit Patel 8/30/12

Sign in presence of a Notary and have

Notary attach Acknowledgement

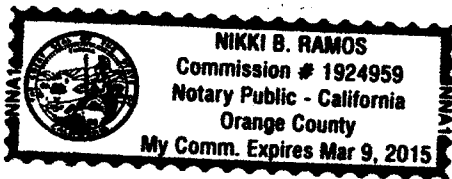
# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Orange

On 8-30-12 before me, NIKKI B. RAMOS, NOTARY PUBLIC

personally appeared Samit Patel



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Nikki B. Ramos

Place Notary Seal Above

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

### Description of Attached Document

Title or Type of Document: Assignment

Document Date: n/a Number of Pages: 6 pages

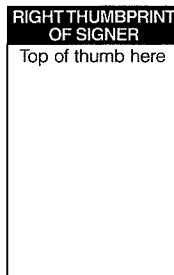
Signer(s) Other Than Named Above: n/a

### Capacity(ies) Claimed by Signer(s)

Signer's Name: Samit Patel

- ☒ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

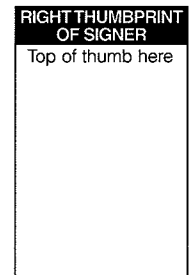
Signer Is Representing: \_\_\_\_\_



Signer's Name: \_\_\_\_\_

- ☐ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_



---

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\_\_\_\_\_, 2012.

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Thomas Ryan

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13766528

**ASSIGNMENT**

WHEREAS, Richard Pellegrino, a US citizen, residing at Half Moon Bay, CA; Paula Papineau, a US citizen, residing at West Bridgewater, MA; John S. Crombie, a US citizen, residing at East Hanover, NJ; Samit Patel, a US citizen, residing at San Francisco, CA; and Thomas Ryan, a US citizen, residing at Austin, TX (individuals hereinafter "ASSIGNOR") invented certain technology, inventions, developments, ideas or discoveries for which the following applications for Letters Patent in the United States have been prepared for filing or have been filed with the United States Patent and Trademark Office (hereinafter the "Applications"):

Docket Number	Title	Appl. No. (if already filed)
RELV.003P2	METHODS OF THERAPEUTICALLY HEATING A VERTEBRAL BODY TO TREAT BACK PAIN	13/612,541
RELV.003P1C1	BASIVERTEBRAL NERVE DENERVATION	13/612,561
RELV.004P1C3	INTRAOSSEOUS NERVE DENERVATION METHODS	13/543,721

AND WHEREAS, Relievant Medsystems, Inc., a Delaware corporation, with its principal place of business at 2688 Middlefield Road, Suite A, Redwood City, CA 94063, (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Applications:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Applications, all applications to which the Applications claim priority (to the extent not already assigned), and all nonprovisional applications claiming priority thereto, including all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

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AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Applications, and testify in any legal proceeding, assist in the preparation of any other non-provisional applications relating to the Applications or any improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Applications including any improvements made thereto, any patent applications filed therefrom, any patent applications to which the Applications claim priority, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the patent applications in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2012.

---

Richard Pellegrino

**Sign in presence of a Notary and have**

**Notary attach Acknowledgement**

---

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 2012.

---

Paula Papineau

**Sign in presence of a Notary and have**

**Notary attach Acknowledgement**

---

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_\_, 2012.

---

John S. Crombie

**Sign in presence of a Notary and have**

**Notary attach Acknowledgement**



---

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of  
\_\_\_\_\_, 2012.

---

Samit Patel

**Sign in presence of a Notary and have**

**Notary attach Acknowledgement**

---

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 21<sup>st</sup> day of August, 2012.



Thomas Ryan

**Sign in presence of a Notary and have**

**Notary attach Acknowledgement**

13766528

**TEXAS ORDINARY CERTIFICATE OF ACKNOWLEDGMENT**

CIVIL PRACTICE & REMEDIES CODE § 121.007

State of Texas

County of Travis }

Before me,

Kathleen Zarzana

Name and Character of Notarizing Officer, e.g., "John Smith,  
Notary Public"

on this day personally appeared

Thomas Ryan

Name of Signer

☒ known to me

☐ proved to me on the oath of

Name of Credible Witness

☐ proved to me through

Description of Identity Card or Document

to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that ~~he~~ <sup>she</sup> executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this

21<sup>st</sup> day of August, A.D., 2012.

Day

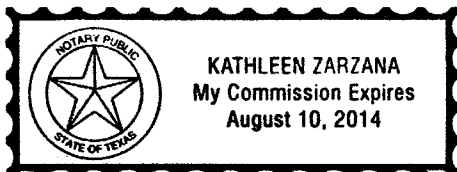
Month

Year

Kathleen Zarzana

Signature of Notarizing Officer

Place Notary Seal and/or Stamp Above



**OPTIONAL**

*Though the information in this section is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: \_\_\_\_\_

Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

**RIGHT THUMBPRINT  
OF SIGNER**

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